SONY

3-758-288-22 (1)

Trinitron® Color TV

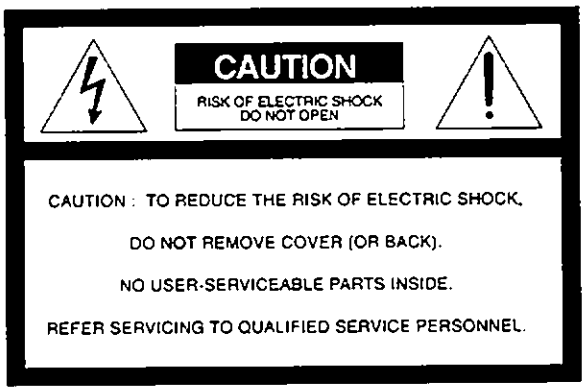
Operating Instructions

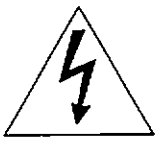
KV-27XBR37
KV-27XBR37M
KV-32XBR37

©1994 by Sony Corporation

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Precautions

Safety

- Operate the TV only on 120 V AC.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.
- Unplug the TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS."

Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

CAUTION

When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Note on Closed Caption (*KV-27XBR37/32XBR37 only*)

This television receiver provides display of television closed captioning in accordance with § 15.119 of the FCC rules.

Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

Owner's Record

The model and serial numbers are located at the rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

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23 Listening with the cordless headphones (HEADPHONES)
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The captions in parentheses indicate menu names.

Welcome!

Thank you for purchasing the Sony Trinitron® Color TV. Here are some of the features you will enjoy with your TV:

- On-screen menus let you adjust the picture quality, sound, and various other settings.
- Surround system simulates the sound quality of a concert hall or movie theater.
- Two-tuner picture-in-picture allows you to watch another TV channel, video or cable image as a window picture.
- Orchestra Seat Effect (OSE) feature restores the harmonic balance of the sound to dramatically improve the overall reproduction of programs. It gives the sound more clarity, depth, and definition, making the sound more dynamic.
- IR transmitter allows you to listen to a TV program with the cordless headphones.
- With the supplied Remote Commander you can operate the TV. In addition, you can operate Sony video and Sony multi-disc players. Other manufacturer's video equipment might also be compatible with this remote commander.
- Center speaker allows you to enjoy the benefits of Dolby Pro Logic by using the speakers of the TV as the center speaker.

About this manual

The instructions in this manual are for models *KV-27XBR37*, *KV-27XBR37M*, and *KV-32XBR37*. Before you start reading this manual please check your model number which is displayed on the rear of the TV. Model *KV-27XBR37* is used for illustration purposes in this manual. Any exceptions in operations between models are clearly indicated in the text. For example, *"KV-27XBR37 only."*

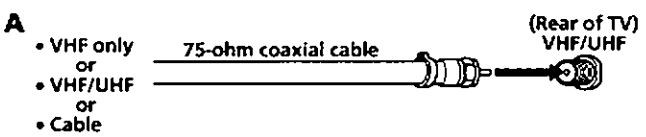
The following instructions describe operation based on using the remote commander buttons. Basic functions can also be performed by using buttons on the TV.

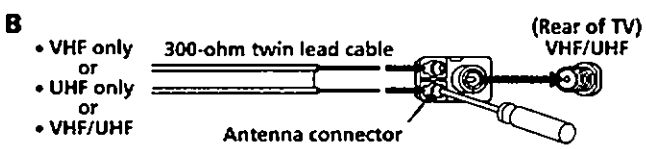
Step 1: Connections

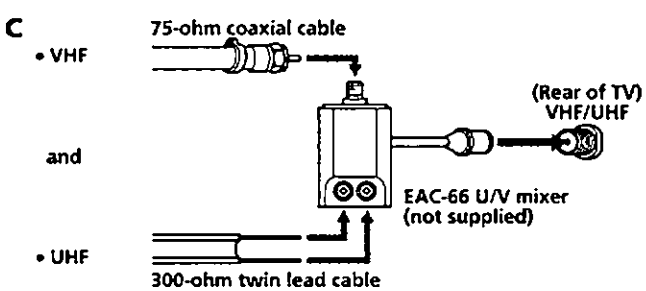
Either an indoor antenna or outdoor antenna should be used with your TV. However, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

How to connect different types of cables

The illustrations below show the examples of connecting different types of cables to the TV directly.







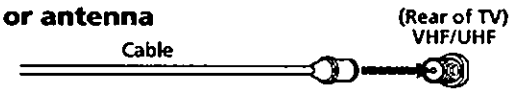
Notes

- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
- If a U/V mixer is used, snow and noise may appear in the picture when viewing cable TV channels over 37 (W +1).

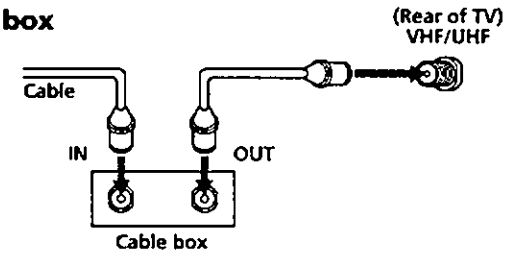
Connecting an antenna/cable TV system without a VCR

If your cable company requires you to connect a cable box, make the connection as follows:

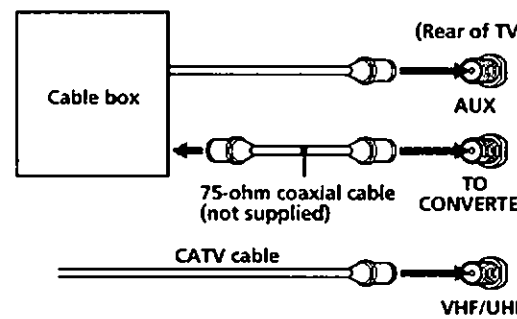
Cable or antenna



Cable box



Cable box and cable



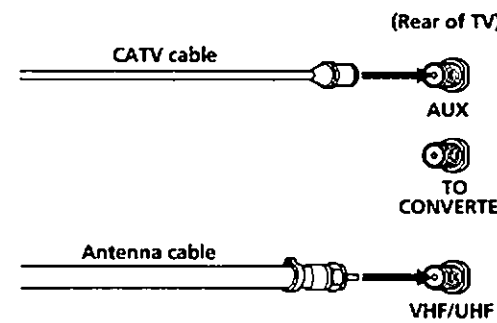
Pay cable TV systems use scrambled or encoded signals requiring the cable box* in addition to the normal cable connection.

* The cable box will be supplied by the cable company.

Note

- You cannot watch the signal through AUX connector as a window picture.

Cable and antenna



Note

- Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

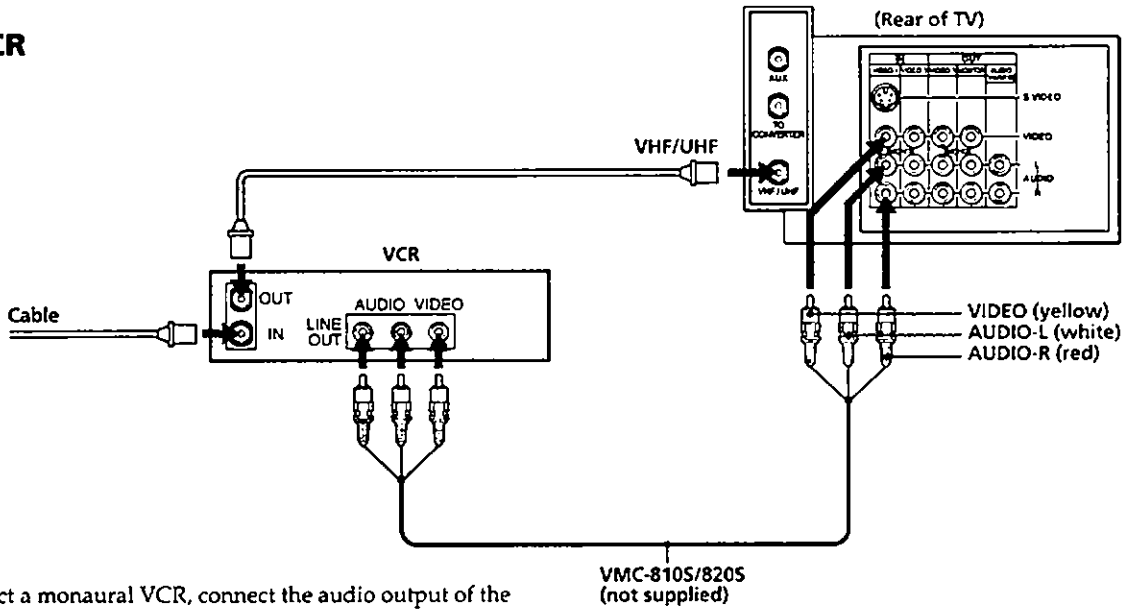
To connect your VCR to the TV, first check the model number of your TV and select the corresponding connection. For details on connection, see the instruction manual of your VCR. Before making connection, disconnect the AC power cords of the equipment to be connected.

After making these connections, you will be able to do the following:

- View the playback of video tapes
- Record one TV program while viewing another program
- Watch two TV programs simultaneously by using the PIP feature.

Without a cable box

To a VCR

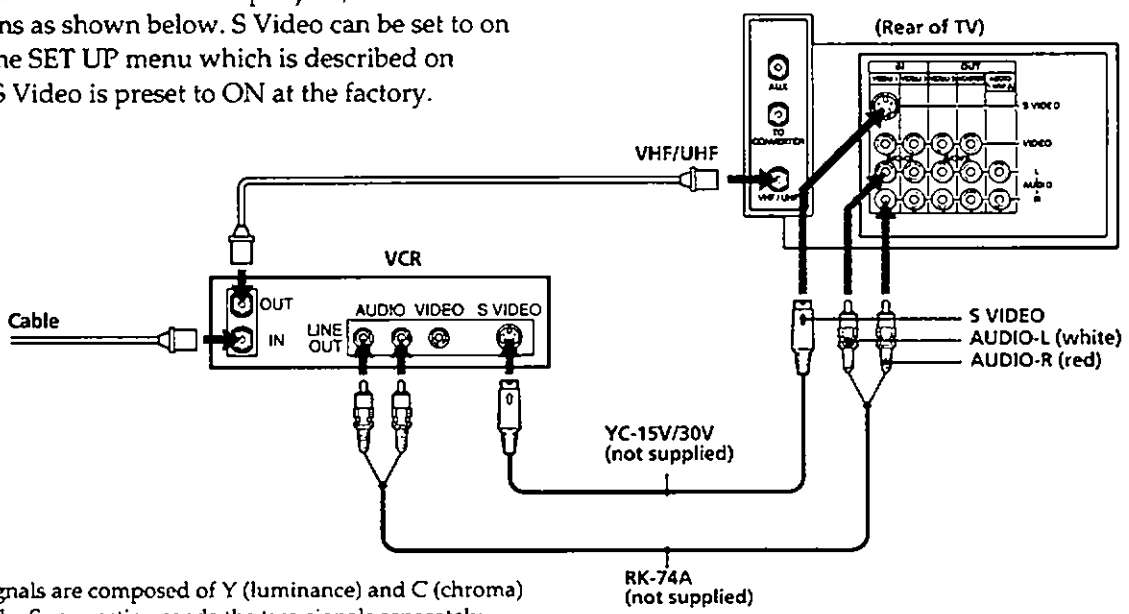


Note

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO 1 IN on the TV.

To an S video equipped VCR

If your VCR has an S video output jack, make the connections as shown below. S Video can be set to on or off in the SET UP menu which is described on page **12**. S Video is preset to ON at the factory.

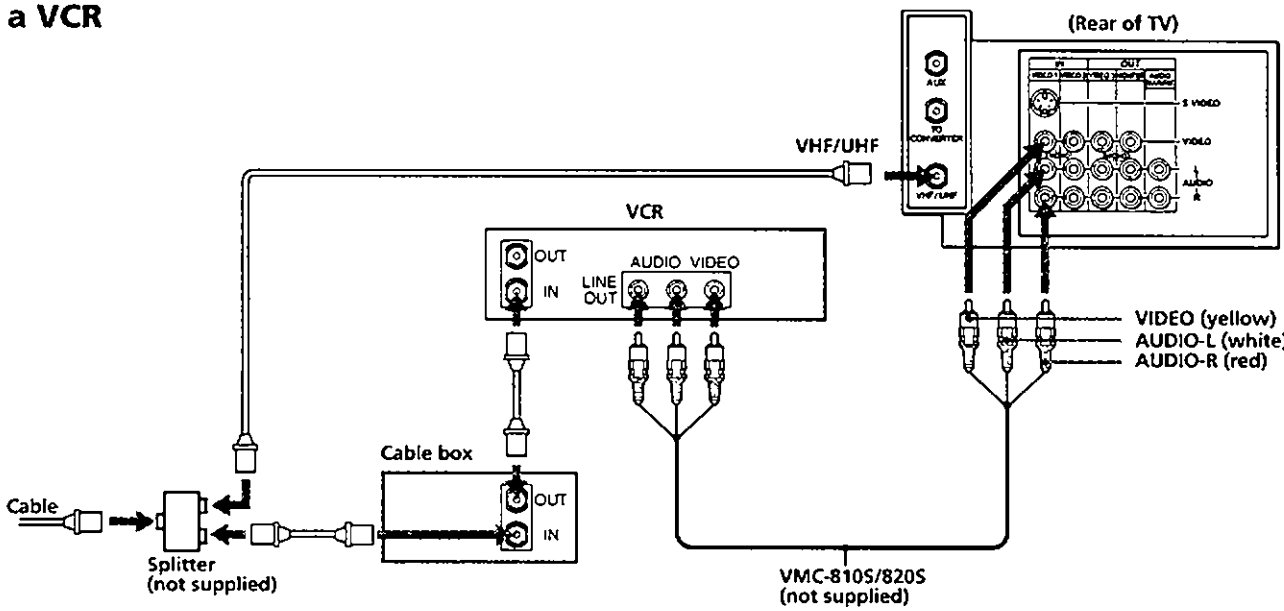


Note

- Video signals are composed of Y (luminance) and C (chroma) signals.The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

With a cable box

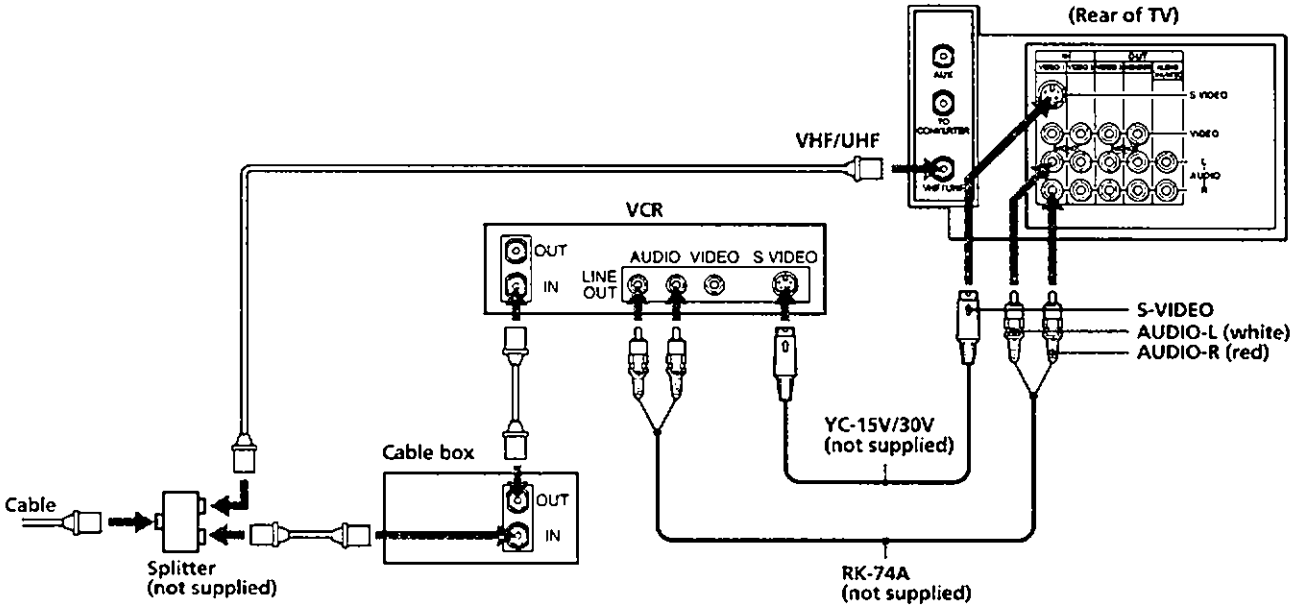
To a VCR



Note

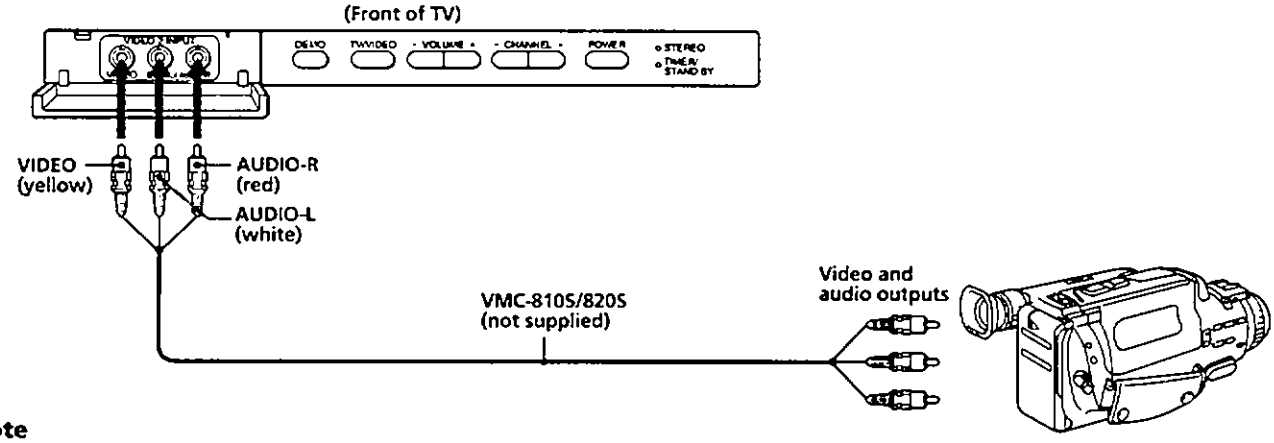
- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO 1 IN on the TV.

To an S video equipped VCR with a cable box



Connecting a camcorder

This connection is convenient for viewing a tape played by a camcorder.



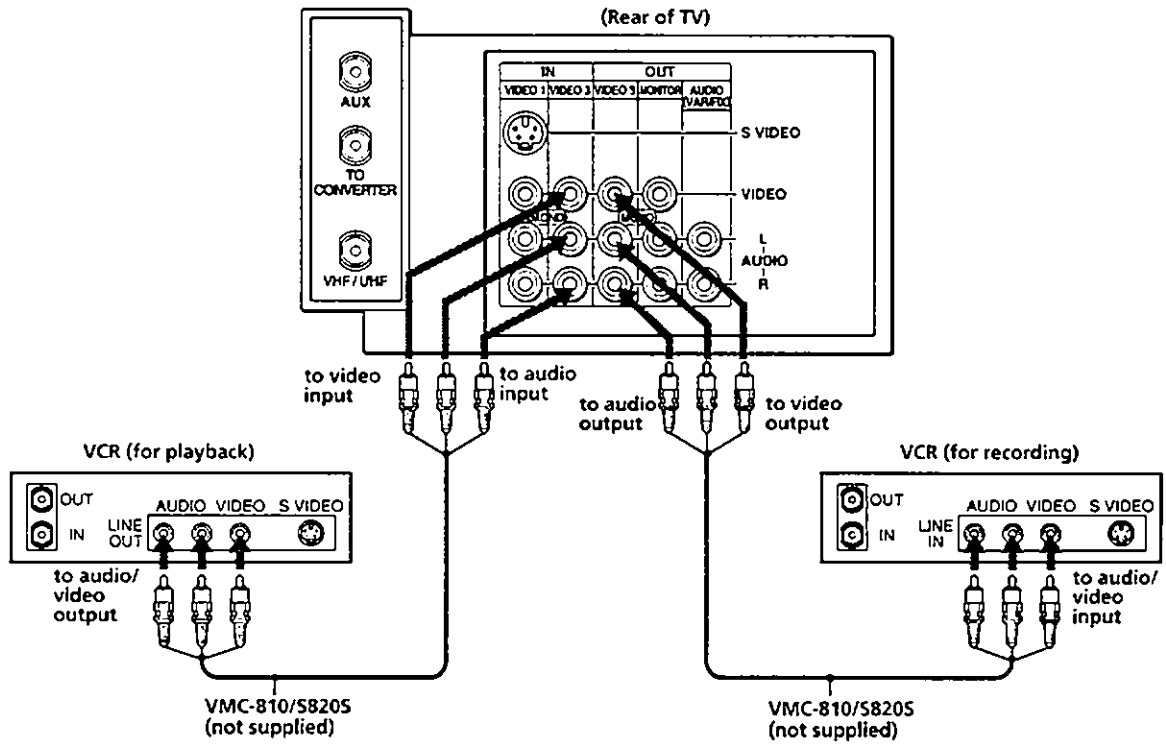
Note

- To connect a monaural camcorder, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO 2 INPUT on the TV.

Connecting two VCRs for tape editing using VIDEO 3 IN and OUT

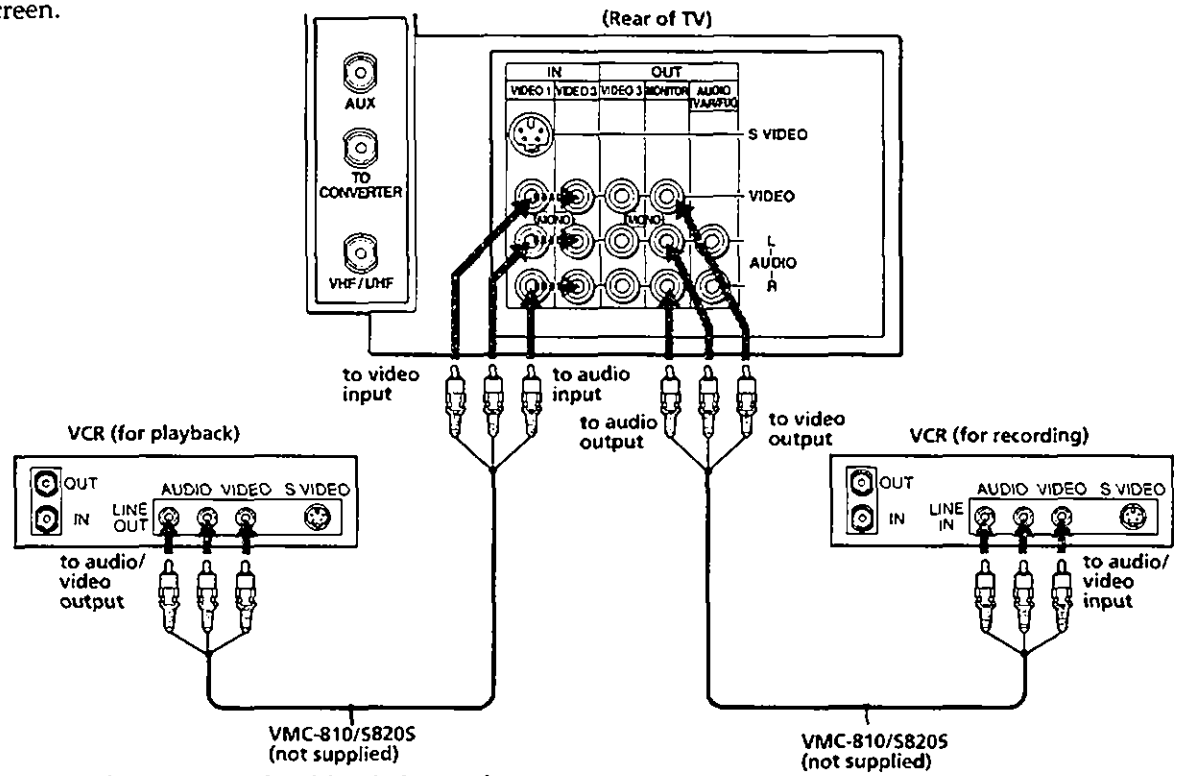
Watching a different image while recording

If you connect the VCR for playback to the VIDEO 3 IN jacks and the VCR for recording to the VIDEO 3 OUT jacks, the material from the playback VCR will be recorded on the recording VCR. Please note that VIDEO 3 OUT can only output material from VIDEO 3 IN. During the above recording process you can view video sources from either antenna, cable, VIDEO 2 IN or VIDEO 1 IN jacks as well.

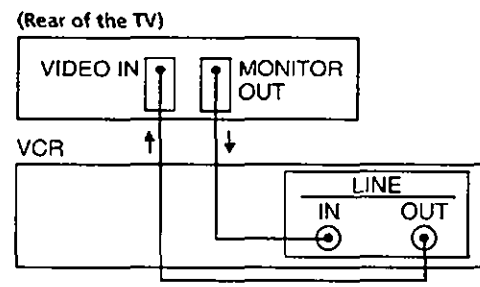


Connecting two VCRs for tape editing using MONITOR OUT

MONITOR OUT allows you to record a program that is on the screen.



The above type of connection should only be used when you connect from the line input of one VCR, and from the line output of a second VCR.

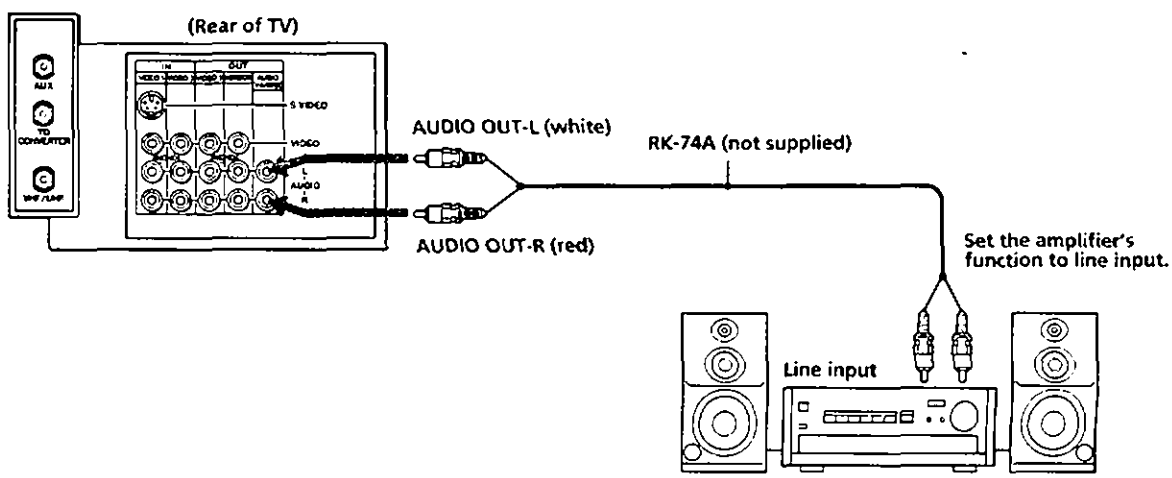


Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- When connecting a single VCR to the TV, do not connect the MONITOR OUT jacks at the rear of the TV to the VCR's line input, while at the same time connecting from the TV's VIDEO IN jacks to the VCR's line output, as shown above.
- You can use the S video jack to connect a VCR for playback and the composite video jack to connect a VCR for recording.

Connecting an audio system

When connecting an audio equipment, see page **21** and **22** for more information.



Connecting an audio system

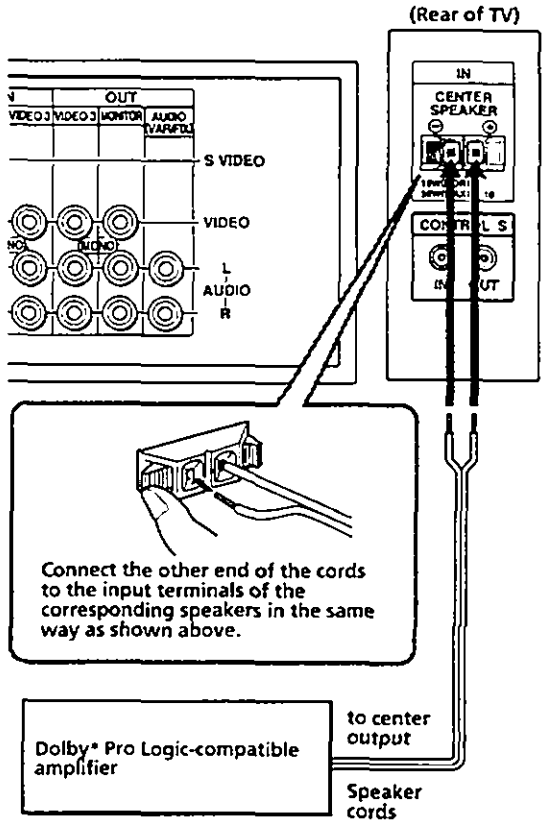
When connecting an audio equipment, see page 21 and

Connecting an audio system

When connecting an audio equipment, see page 21

Using the TV speakers as center speakers

This feature allows you to enjoy the benefits of Dolby Pro Logic by using the speakers of the TV as the center speaker. To utilize this system you must have an amplifier that is Dolby Pro Logic compatible. Connect the speaker wires from the amplifier's center channel output terminals to the TV's Center Speaker In terminals. Both right and left terminals must be connected to receive an audio signal. After making the above connections select "SPEAKER : CENTER" from the AUDIO menu (page **19**). The left and right audio channels can be heard through your audio system speakers. Please note that in this set up the volume can only be adjusted by your amplifier.



Notes

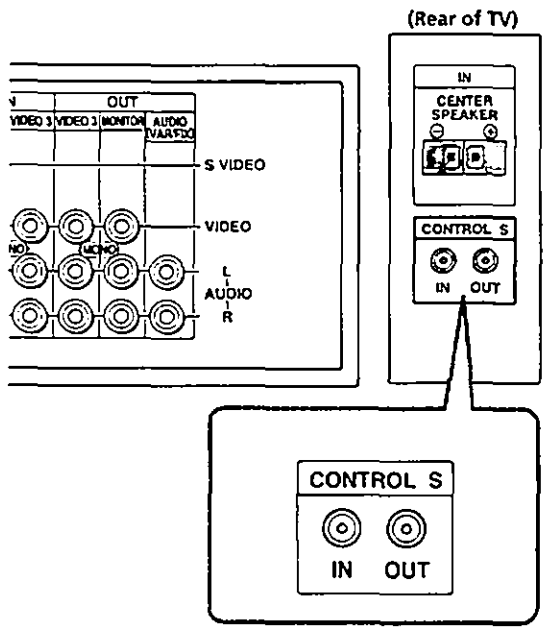
- Always match the speaker cord and terminal colors when making the connections.
- Unplug the TV when making the connections. If the exposed speaker cord wires touch while the TV is plugged in, the TV may short-circuit and be damaged.
- Do not pull on the speaker cords.
- Always turn off the amplifier power before connecting to CENTER SPEAKER IN.

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents; U.S. numbers 3,632,886, 3,746,792 and 3,959,590. "Dolby" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

Connecting other Sony equipment with CONTROL S jack

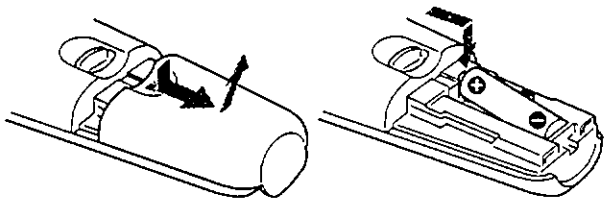
This feature allows you to control your TV and other SONY components with one remote commander. You can either control the TV with a remote commander from a SONY component or control the SONY component with the TV's remote commander. The connections for the above options are described below.

- To control other Sony equipment with the TV's remote commander, connect the input of the equipment to CONTROL S OUT jack on the TV.
- To control the TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROL S IN jack on the TV.



Step 2: Setting up the remote commander

Insert one size AA (R6) battery (supplied) by matching the + and – on the battery to the diagram inside the battery compartment.



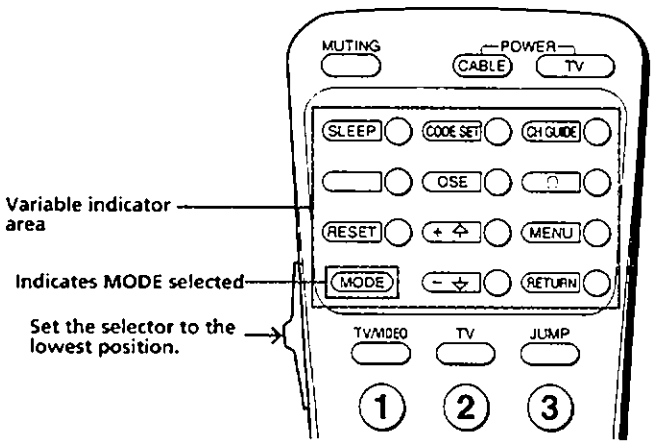
Notes

- With normal use, the battery should last for approximately six months.
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

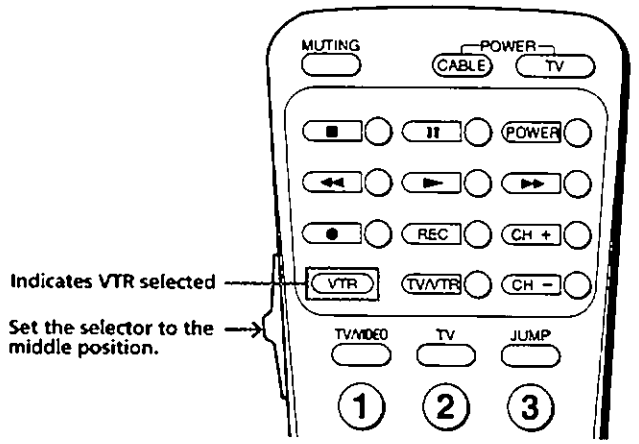
Using the remote commander

This remote commander has three different operation modes which are selected by sliding a switch on the upper left side of the remote commander. The three operation modes are (1) for normal TV viewing, (2) for operating video equipment, and (3) for using the PIP feature. The functions that are necessary for each of the operations appear in the button windows as the switch is moved up or down.

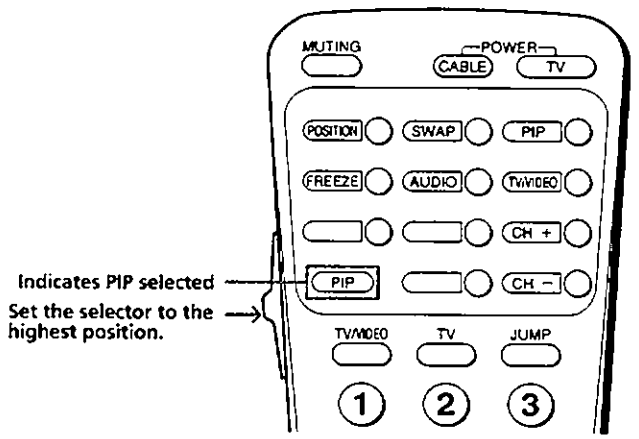
For normal TV viewing



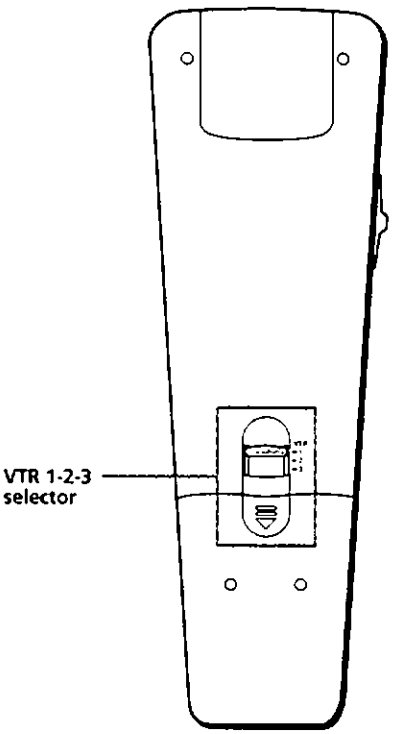
For operating video equipment



For using the Picture-in-Picture feature

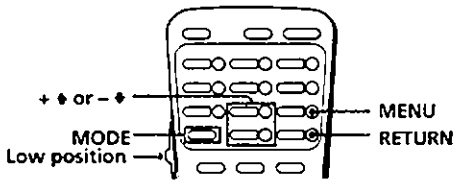


Rear of the remote commander

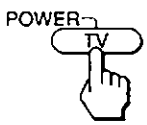


Step 3: Setting cable TV on or off

This setting allows you to view either broadcast or cable signals. The factory setting for cable TV is ON. If you do not desire to view cable TV, you must turn it off as shown below.

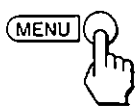


1 Press POWER (TV) to turn the TV on.



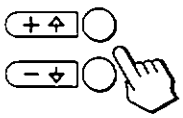
2 Press MENU.

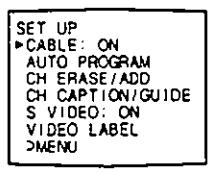
The main menu appears.



3 Press ↑ + or ↓ – to move the cursor (▶) to SET UP and press RETURN.

The SET UP menu appears.

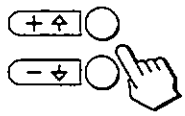




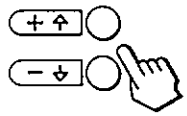
If you are in one of the video modes, the CABLE lettering will be black on the menu. To display the CABLE lettering you must press TV on the remote commander until a channel number appears on the screen.

4 Set CABLE to ON or OFF:

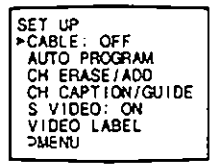
(1) Make sure the cursor (▶) is beside CABLE and press RETURN.
If the cursor is not beside CABLE, press ↑ + or ↓ – to move the cursor and press RETURN.



(2) Press ↑ + or ↓ – to select ON or OFF and,



(3) press RETURN.



5 Press MENU to return to the normal screen.

About the DEMO feature

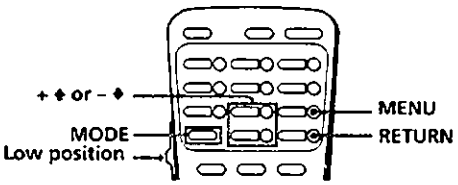
Press DEMO button on the front panel.
The functions and menus are displayed one by one.

The SET UP menu appears.

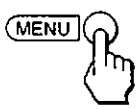
The SET UP menu appears.

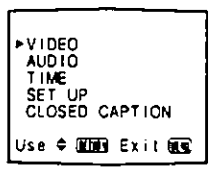
Step 4: Presetting channels

AUTO PROGRAM feature allows you to preset TV channels easily. You can also custom tailor the channels you like to receive by deleting and adding channels manually. Preset channels during the day rather than late at night, since some channels go off the air during this time and will not be preset.

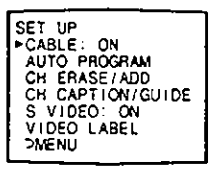


1 Press MENU.

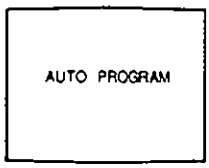




2 Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.



3 Press + ↑ or – ↓ to move the cursor (▶) to AUTO PROGRAM and press RETURN.



"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

Notes

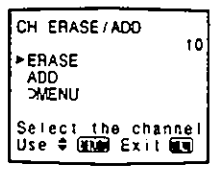
- If you are in one of the video modes, the AUTO PROGRAM lettering will be black on the menu. To display the AUTO PROGRAM lettering you must press the TV/VIDEO or TV button until a channel number appears.
- In case of using the AUX connector, AUTO PROGRAM is also available for the AUX input. Press the TV button on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 1 to 3 above.

Erasing or adding channels

1 Press MENU.

2 Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.

3 Press + ↑ or – ↓ to move the cursor (▶) to CH ERASE/ADD and press RETURN.



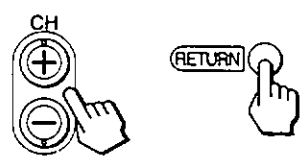
4 Erase and/or add the channel you want:

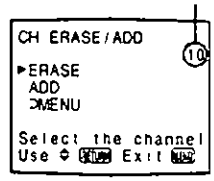
To erase an unwanted channel

(1) Make sure the cursor (▶) is beside ERASE.

(2) Press CH +/– to select the channel you want to erase and, press RETURN.

Selected channel number





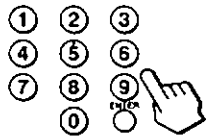
The indication "–" appears beside the channel number, showing that the channel is erased from the preset memory.

(continued)

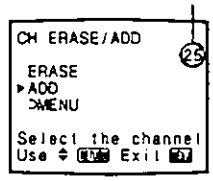
To add a desired channel

(1) Press + ↑ or – ↓ to move the cursor (▶) to ADD.

(2) Press the 0 – 9 buttons to select the channel you want to add and press ENTER and,



Selected channel number



(3) Press RETURN.
The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.

5 To erase and/or add other channels, repeat step 4.

6 When you finish, press MENU.

Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.
- Erasing and adding channels are also available for the AUX input.

Setting S video on or off

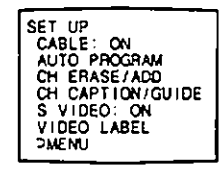
You can change the S VIDEO menu to ON or OFF.

1 Press TV/VIDEO to select VIDEO 1.

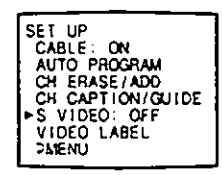
2 Press MENU.

3 Press + ↑ or – ↓ to move the cursor (▶) to SET UP and press RETURN.

4 Press + ↑ or – ↓ to move the cursor (▶) to S VIDEO and press RETURN.



5 Press + ↑ or – ↓ to select ON or OFF and press RETURN.

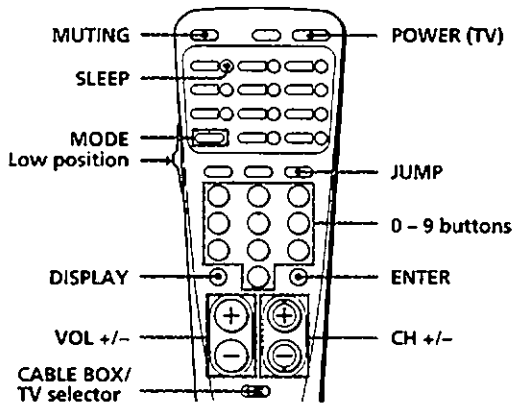


6 Press MENU to return to the original screen.

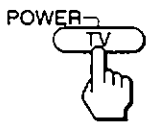
Notes

- If S VIDEO appears in black on the menu, press the TV/VIDEO button until VIDEO 1 is selected.
- If you set S VIDEO to ON, the TV automatically receives S video signals whenever a VCR with S video is connected.

Watching the TV



1 Press POWER (TV) to turn the TV on.

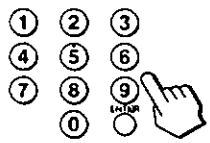


If "VIDEO" appears on the screen, press the TV/VIDEO, TV or CH +/– button until a channel number appears on the screen.

2 Select the desired channel:

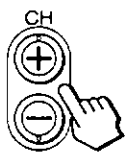
To select a channel directly

Press the 0 – 9 buttons and then press ENTER.

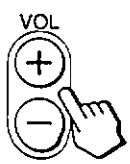


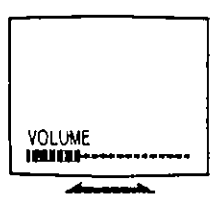
To scan through channels

Press CH +/– until the channel you want to watch appears.



3 Press VOL +/– to adjust the volume.





Note

- Set the CABLE BOX/TV selector to TV.

Switching quickly between two channels

Press JUMP.

The channel you watched previously appears.

Pressing JUMP again returns you to the original channel.

Muting the sound

Press MUTING.

There is no audio and "MUTING" appears on the screen.

To restore the sound, press MUTING again, or press VOL +.

Displaying on-screen information

Use this feature to display the channel number, the current time (if set), channel caption (if set), headphone (if set), and MTS mode (if SAP is selected). Headphones and SAP indications will disappear after 4 seconds.

Press DISPLAY.

To cancel the display, press DISPLAY again.

Setting the Sleep Timer

The TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (minutes) you want appears.
Each time you press SLEEP, the time changes as follows: 30 → 60 → 90 → OFF.

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn the TV off.

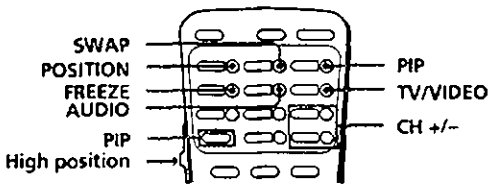
Changing the VHF/UHF input to the AUX input

Press TV.
"AUX" appears beside the channel number.

Pressing TV again switches back to the previous input.

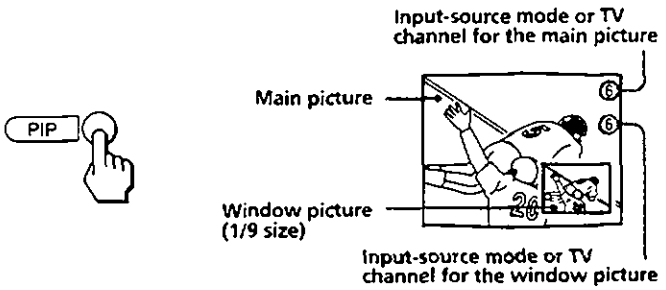
Watching two programs at the same time —PIP

The Picture in Picture (PIP) feature allows you to watch two channels at the same time by displaying a 1/9 size or 1/16 size window picture within the main picture.

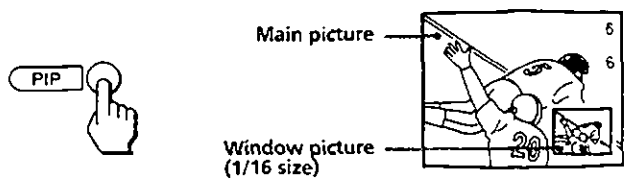


Displaying a window picture

Press PIP.


Input-source mode or TV channel for the main picture
Main picture
PIP
Window picture (1/9 size)
Input-source mode or TV channel for the window picture

Press PIP again to display a smaller window picture.



Each time you press PIP, the size of the window picture changes as follows: 1/9 size → 1/16 size → OFF.

To remove the window picture, press PIP repeatedly until the window picture disappears.

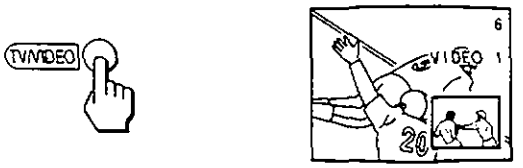
Notes

- If the main picture is not receiving an image, the window picture may be in black and white.
- The window picture may be affected by the condition of the main picture.
- You can listen to the window picture's sound through the AUDIO OUT (VAR/FIX) jacks.

Changing the window picture input mode

Press TV/VIDEO in the PIP control area to select the input mode.

Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.

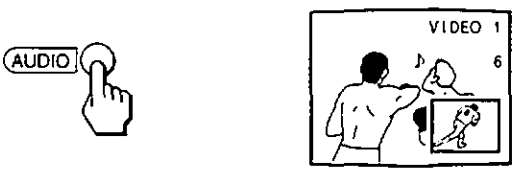


A window picture will appear in the same input mode as the last time you used PIP.

Listening to the sound of the window picture

Press AUDIO.

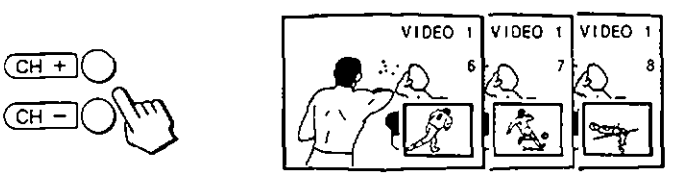
The ♪ display appears for a few seconds, indicating that the window picture sound is being received.



To restore the main picture sound, press AUDIO again.

Changing TV channels in the window picture

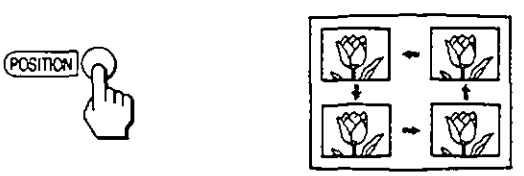
Press CH +/– in the PIP control area.



Changing the position of the window picture

Press POSITION.

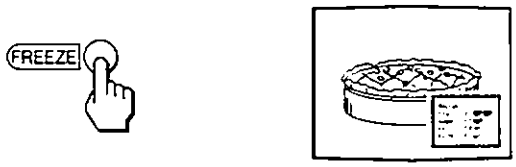
Each time you press POSITION, the window picture will move counterclockwise on the screen.



Freezing the window picture

This feature is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

Press FREEZE.

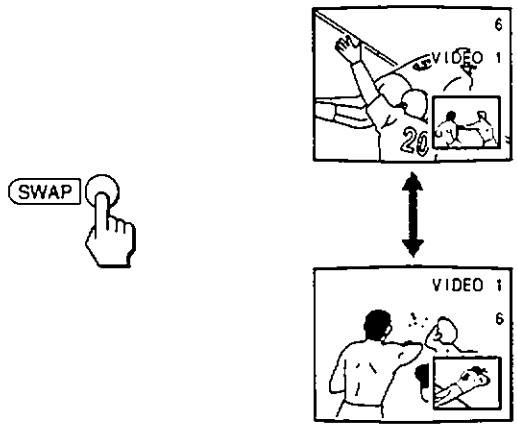


To restore the normal screen, press FREEZE again.

Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images and sound with each other of the main and window pictures switch places.

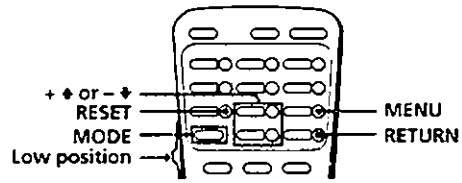


Note

- The channels being received through the AUX jack cannot be displayed as a window picture.

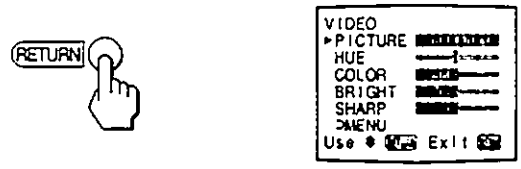
Adjusting the picture (VIDEO)

You can adjust the pictur setting of TV programs to your preferences by following the instructions below. These adjustments can also be made for your video input programs. The TV program settings and video program settings are stored separately.



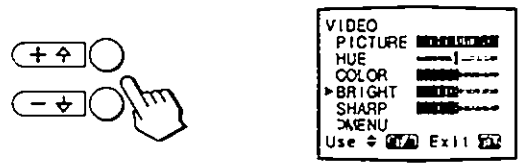
1 Press MENU.

2 Make sure the cursor (▶) is beside VIDEO and press RETURN.

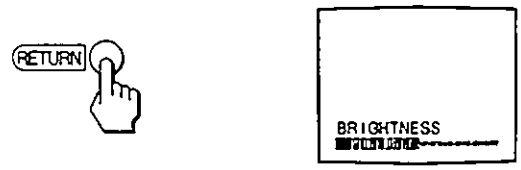


3 Select the item you want to adjust.
For example:

(1) To adjust brightness, press + ▲ or – ▼ to select BRIGHT and,

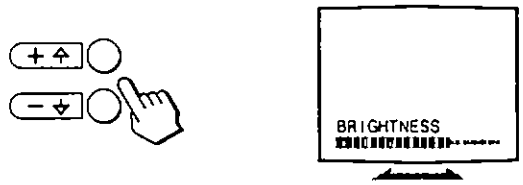


(2) press RETURN.



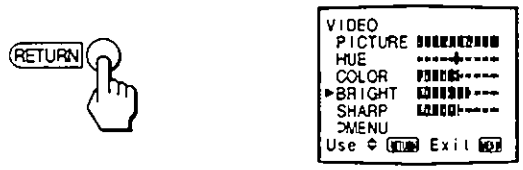
4 Adjust the selected item:

(1) Press + ↑ or – ↓ to adjust the item and,



(2) press RETURN.

The new setting appears in the VIDEO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

Description of adjustable items

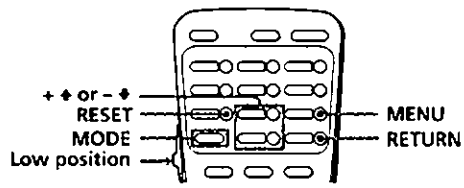
Item	Press + ↑ to	Press – ↓ to
PICTURE	Increase picture contrast for vivid color	Decrease picture contrast for soft color
HUE	Make skin tones become greenish	Make skin tones become purplish
COLOR	Increase color intensity	Decrease color intensity
BRIGHT	Brighten the picture	Darken the picture
SHARP	Sharpen the picture	Soften the picture

To restore the factory settings

Press RESET while the VIDEO menu is displayed. All the settings except for PICTURE are restored to the factory settings.

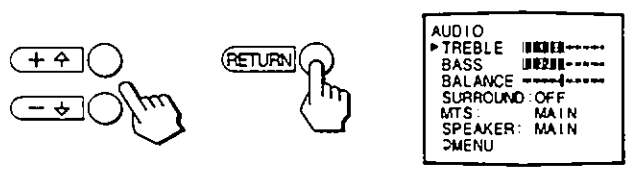
Adjusting the sound (AUDIO)

You can adjust the audio setting of the TV programs to your preferences by following the instructions below. These adjustments can also be made for your video input programs. The TV program settings and video program setting are stored separately.



1 Press MENU.

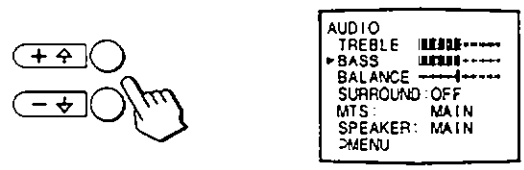
2 Press + ↑ or – ↓ to select AUDIO and press RETURN.



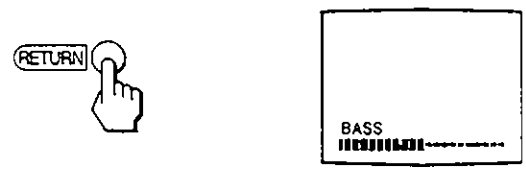
3 Select the item you want to adjust.

For example:

(1) To adjust bass, press + ↑ or – ↓ to select BASS and,



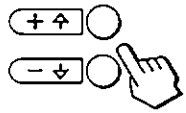
(2) press RETURN.

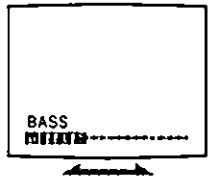


(continued)

4 Adjust the selected item:

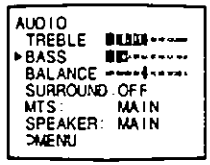
(1) Press + ↑ or – ↓ to adjust the item and,





(2) press RETURN.

The new setting appears in the AUDIO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4 above.

Description of adjustable items

Item	Press + ↑ to	Press – ↓ to
TREBLE	Increase the treble response	Decrease the treble response
BASS	Increase the bass response	Decrease the bass response
BALANCE	Emphasize the right speaker's volume	Emphasize the left speaker's volume

To restore the factory settings

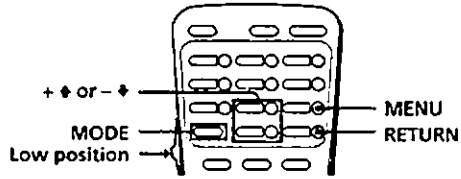
Press RESET while the AUDIO menu is displayed.

Note

- When SPEAKER (page **21**) is CENTER and AUDIO OUT (page **22**) is in FIXED condition, the sound is set to mid-level and it cannot be adjusted through your TV set.

Listening to surround sound (SURROUND)

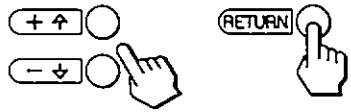
SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only works with for stereo programs.

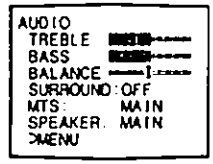


1 Press MENU.

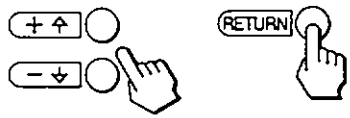
2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Press + ↑ or – ↓ to select SURROUND and press RETURN.



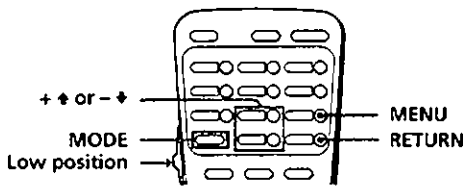


4 Press + ↑ or – ↓ to select ON and press RETURN.



Selecting stereo or bilingual programs (MTS)

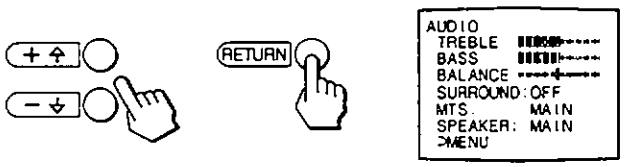
The Multichannel TV Sound (MTS) feature gives you the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The factory setting is stereo sound (MAIN).



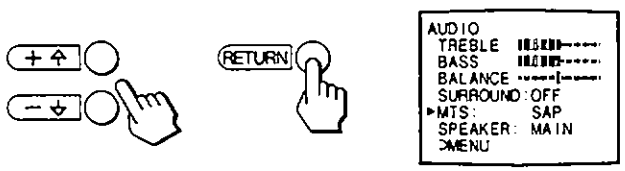
1 Press MENU.

2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Press + ↑ or – ↓ to select MTS and press RETURN.



4 Press + ↑ or – ↓ to select MAIN, SAP, or MONO and press RETURN.



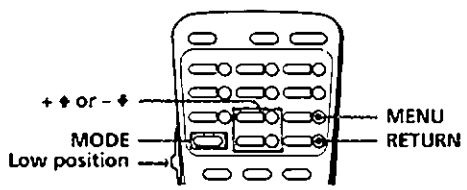
Choose	To
MAIN	Listen to stereo sound. The STEREO indicator on the TV lights up while a stereo broadcast is received.
SAP	Listen to bilingual programs. The sound of non-SAP programs will be muted when SAP is selected.
MONO	Reduce noise during stereo broadcasts.

Note

- Stereo and SAP sounds are subject to program sources. Refer to your local TV program listings.

Setting the speakers (SPEAKER)

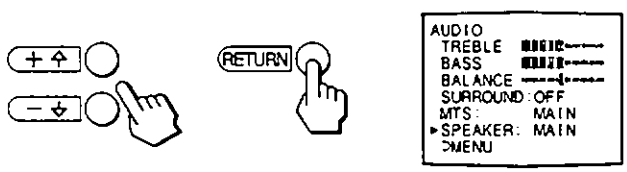
You may switch off the TV speakers when, for example, you want to listen to the sound through a stereo system.
If you use the TV speakers as center speakers and connect a Dolby Pro Logic-compatible amplifier to CENTER SPEAKER IN, after making the connections display the mode set menu and set SPEAKER to "CENTER."



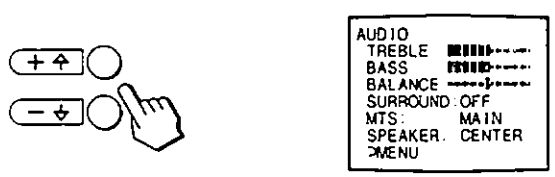
1 Press MENU.

2 Press + ↑ or – ↓ to select AUDIO and press RETURN.

3 Press + ↑ or – ↓ to select SPEAKER and press RETURN.



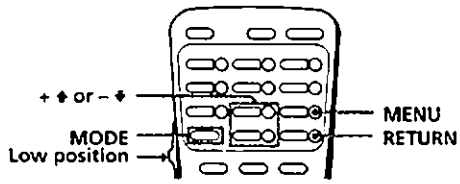
4 Press + ↑ or – ↓ to select MAIN or CENTER.



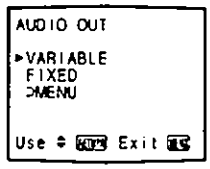
If you select CENTER and press RETURN, the AUDIO OUT menu appears.
To set the AUDIO OUT menu, press RETURN and see "Setting audio out" (page **22**) for setting.
To turn the speakers off, change SPEAKER from MAIN to CENTER in the AUDIO menu.

Setting audio out (AUDIO OUT)

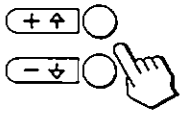
This setting allows you to select either a fixed or variable audio output. Fixed audio output means that you cannot adjust the volume and sound characteristics through your TV set. Variable output means that you can adjust the volume, bass, treble and balance through your TV set.
If SPEAKER is CENTER audio out can either be fixed or variable, however, if the SPEAKER is MAIN, audio out is variable.

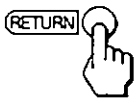


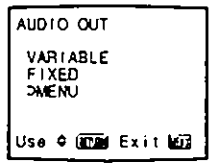
1 Follow steps 1-4 in "Setting the speakers" on page 21 to set the speakers to CENTER and press RETURN.



2 Press + ↑ or – ↓ to select VARIABLE or FIXED and press RETURN.

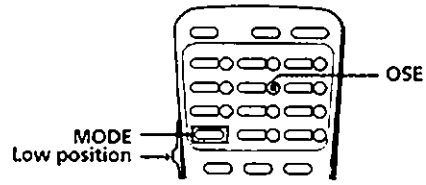




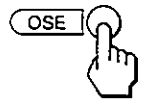


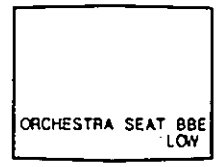
Listening to orchestra seat effect sound—OSE

Orchestra Seat Effect* (OSE) feature restores the harmonic balance of the sound to dramatically improve the overall reproduction of programs. It gives the sound more clarity, depth, and definition, making the sound more dynamic.

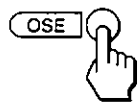


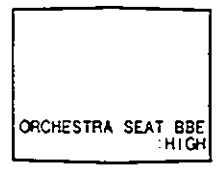
Press OSE.
"ORCHESTRA SEAT BBE: LOW" appears on the screen.



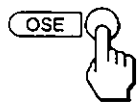


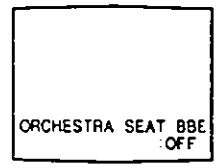
Press OSE again.
"ORCHESTRA SEAT BBE: HIGH" appears.





Press again.
To turn off the OSE.





We recommend LOW setting for news programs and HIGH setting for music, sports, video games and movies.
For the best sound quality, we recommend that AUDIO to be set at factory setting when OSE is set to ON.

* Orchestra Seat™ Sound Effect* (OSE) feature restores the harmonic balance of the sound to dramatically improve the overall reproduction of programs.
Orchestra Seat™ Sound Effect is using BBE technology under licence from BBE sound Inc.

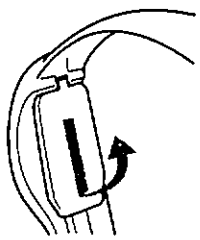
Note
- OSE may also be output through audio out.

Listening with the cordless headphones (HEADPHONES)

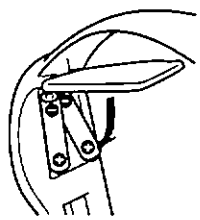
Setting up the headphones

Install the supplied batteries into the headphones.

(1) Open the battery compartment lid by pressing on the lid as illustrated.



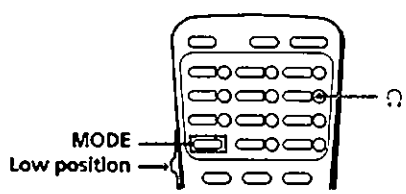
(2) Insert two size AA (R6) batteries into the compartment with correct polarity and close the lid.



Battery life

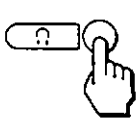
When used continuously, the batteries will last:
— up to 80 hours with size AA (R6) alkaline batteries or
— up to 40 hours with size AA (R6) manganese batteries.
Replace both batteries with new ones when the sound deteriorates.

Using the headphones

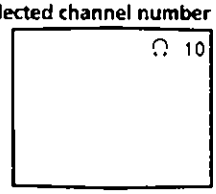


1 Press HEADPHONES.

The ∩ display appears for about three seconds.

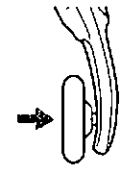


Selected channel number

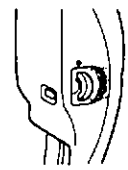


2 Turn on the headphones.

The power turns on automatically when you put the headphones on (when the right housing is pushed).



3 Adjust the headphones' volume.



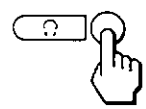
If you want to only listen to the sound from the cordless headphones, turn down the TV speaker volume or press MUTING.

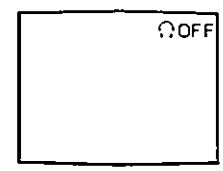
To turn off the sound from the TV's speaker

Press VOL - until the sound disappears, or set SPEAKER to CENTER (see "Setting the speakers" on the previous page 21).

To turn off the headphones

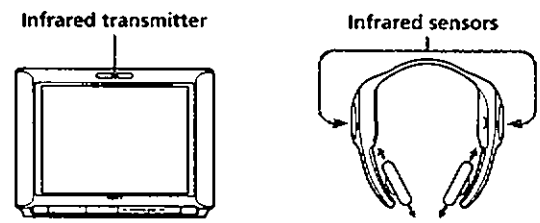
Remove the headphones from your head (the power turns off automatically), then press HEADPHONES.





To improve sound reception

- Do not cover the infrared transmitter on the TV.
- Do not cover the infrared sensors on the headphones.

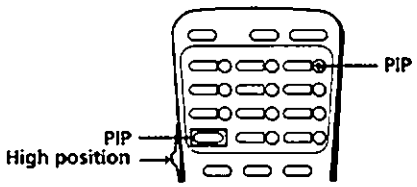


Notes

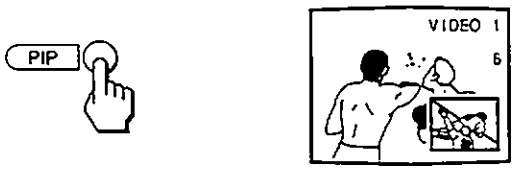
- The sound characteristics heard through the headphones cannot be modified in the same manner as the sound characteristics heard through the TV's speakers.
  Treble, bass and balance settings are fixed. Surround, OSE and muting features are not available.
- After you have finished listening with the headphones, it is recommended that you remove the headphones from your head before pressing HEADPHONES. Otherwise noise will be heard through the headphones.
- To prevent hearing damage due to sudden or prolonged excessive volume, do not raise the headphones' volume too high while listening.

Listening to sound from a window picture (PIP)

Follow these instructions to select the audio source that you want to receive through the cordless headphones (main or window picture). If you want to listen to sound from the window picture, make sure that the sound from the window picture is being received.



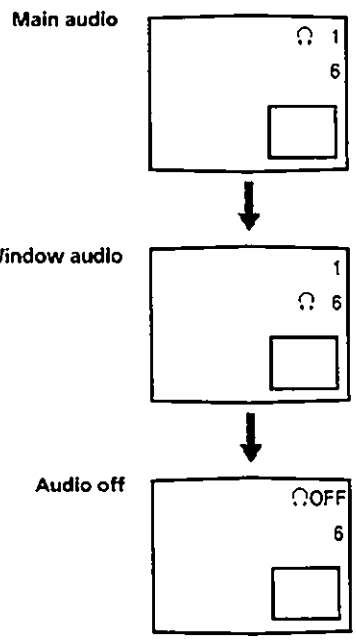
1 Press PIP to display a window picture.



2 Press HEADPHONES.

Each time you press HEADPHONES, the audio source changes to main picture, window picture and "OFF" in sequence.

The ∩ display appears with the input mode.



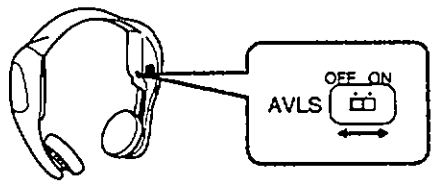
Notes

- If you turn the PIP function off, the sound from the cordless headphones changes to the main picture sound.
- If you turn off the TV, the next time you turn on the TV the headphones will be off.

AVLS (Automatic Volume Limiter System) Function

The AVLS switch on the headphones' headband allows you to limit the maximum volume of your headphones.

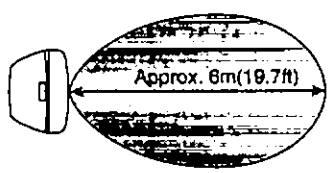
- When the AVLS switch is set to the ON position, the volume will be kept at a moderate level.
- When the AVLS switch is set to the OFF position, you will be able to enjoy the full volume capability of your headphones.



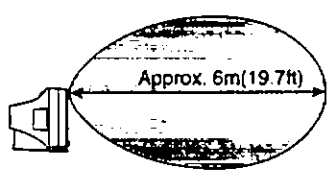
Coverage area of the infrared rays

The diagrams illustrate the approximate area covered by the infrared rays emitted from the transmitter.

Top view



Side view

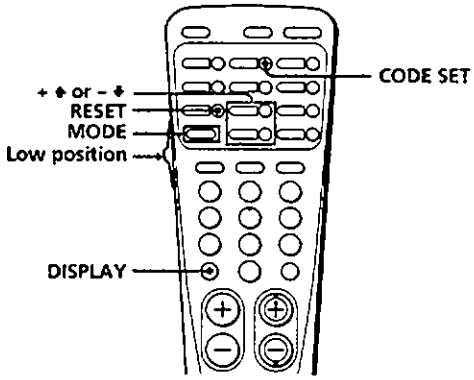


Note

- If you use the headphones at too great a distance from the transmitter, you may hear a hissing noise, and if there is an object between the headphones and the transmitter, the sound may be interrupted. These phenomena are inherent to infrared ray communication. They do not indicate a problem with the unit, itself.

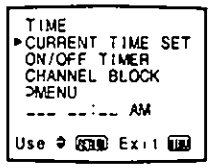
Setting the clock (CURRENT TIME SET)

Setting the clock enables you to turn the TV on and off with the timer, or to block a TV channel from being watched at a certain time.

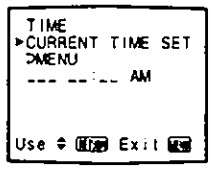


1 Press MENU.

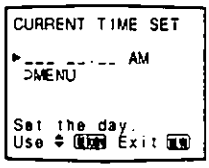
2 Press + ↑ or – ↓ to select TIME and press RETURN.



3 Make sure the cursor (▸) is beside CURRENT TIME SET and press RETURN.

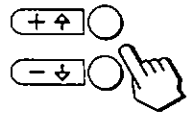


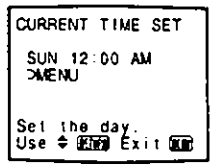
4 Press RETURN again.



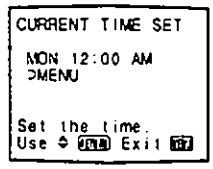
5 Set the day:

(1) Press + ↑ or – ↓ to set the day and,



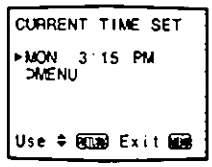


(2) press RETURN.



6 Set the time, hour (AM or PM) and minutes as you did the day.

When you press RETURN to set the minutes, the clock starts.



If you make a mistake while setting the time

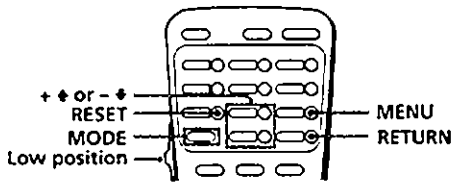
Press RESET while the CURRENT TIME SET menu is displayed, then start again from step **4**.

To check the time

Press DISPLAY.

Setting the timer to turn the TV on and off (ON/OFF TIMER)

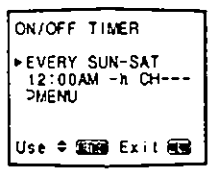
You can set the TV to turn on and off at the time you desire. Make sure the clock is set correctly. If it is not, set the clock first (see page 25).



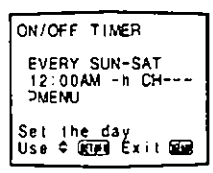
1 Press MENU.

2 Press + ↑ or – ↓ to select TIME and press RETURN.

3 Press + ↑ or – ↓ to select ON/OFF TIMER and press RETURN.

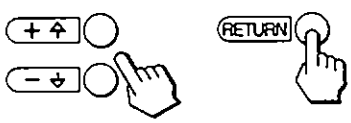


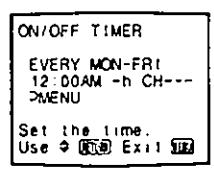
4 Make sure the cursor (▸) is beside "EVERY SUN • SAT" and press RETURN.



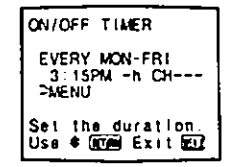
5 Press + ↑ or – ↓ to select the days you want and press RETURN.

Each time you press + ↑ or – ↓, the days cycle as shown in "Setting the day."



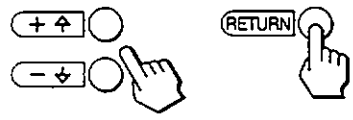


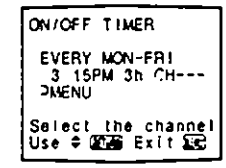
6 Press + ↑ or – ↓ to set the start time and press RETURN.



7 Press + ↑ or – ↓ to set the length of the program (1 to 6 hours) and press RETURN.

For example, to have the TV turn off after 3 hours, set the duration to "3."





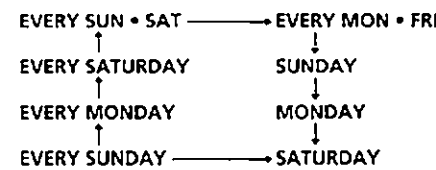
8 Press + ↑ or – ↓ to set the channel that you want to watch and press RETURN.

When you press RETURN, the timer is set and the TIMER indicator on the front of the TV lights up.

When the time you set comes, the TV will turn on. (If the TV is already turned on, the TV screen changes to the channel you set.) Before the timer goes off, the message "TV will turn off" appears for one minute and then the TV turns off.

Setting the day

Each time you press + ↑, the days cycle as shown below. If you press – ↓, the days cycle in reverse order.



To change the timer setting

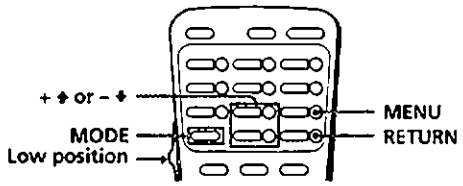
Set the new day and time following the procedure on the previous page. The previous setting is erased.

To cancel the timer

Press RESET while the ON/OFF TIMER menu is displayed. The TIMER indicator on the front of the TV goes out.

Blocking out a channel (CHANNEL BLOCK)

You can lockout a channel that you don't want your children to watch. Make sure the clock is set correctly. If it is not, set the clock first (see page **25**).



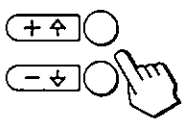
1 Press MENU.

2 Press + ↑ or – ↓ to select TIME and press RETURN.

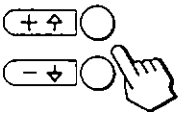
3 Press + ↑ or – ↓ to select CHANNEL BLOCK and press RETURN.

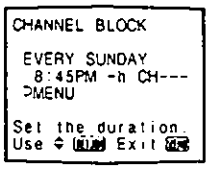
4 Make sure the cursor (▸) is beside "EVERY SUN • SAT" and press RETURN.

5 Press + ↑ or – ↓ to select the days you want to block the channel and press RETURN.
Each time you press + ↑ or – ↓, the days cycle as shown in "Setting the day" on the previous page.

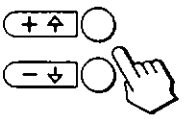


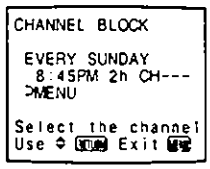
6 Set the time that you want to start blocking the channel as you did the day.



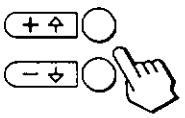


7 Press + ↑ or – ↓ to set the length of the program (1 to 6 hours) and press RETURN.
For example, to block a channel for 2 hours, set the duration to "2."





8 Press + ↑ or – ↓ to set the channel that you want to block and press RETURN.
When you press RETURN, the Channel Block setting is complete.



If you select the blocked channel during the time you set, the message "BLOCKED" appears.

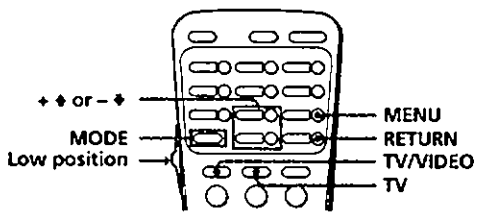
To cancel the Channel Block

Press RESET while the CHANNEL BLOCK menu is displayed.

Customizing the channel number buttons (CH CAPTION/GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.

Setting captions to favorite channels

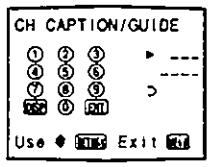


1 Press TV/VIDEO or TV to select TV mode.

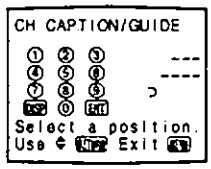
2 Press MENU.

3 Press + ↑ or – ↓ to select SET UP and press RETURN.

4 Press + ↑ or – ↓ to select CH CAPTION/GUIDE and press RETURN.

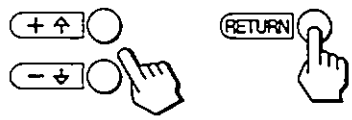


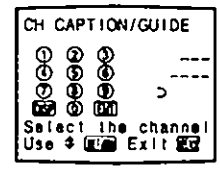
5 Press RETURN again.



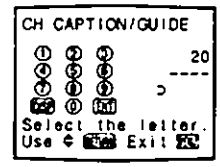
6 Press + ↑ or – ↓ to select a channel guide number button and press RETURN.

Each time you press + ↑ or – ↓, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.





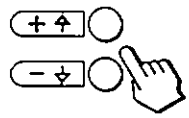
7 Press + ↑ or – ↓ to select the channel that you want to caption and press RETURN.



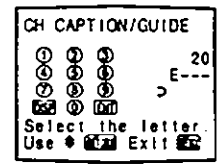
8 Enter the letters (up to four) to caption the channel:

(1) Press + ↑ or – ↓ to select the first letter.
Each time you press + ↑ or – ↓, the letter changes as shown below and,

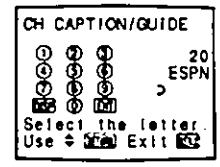
0↔1↔...↔9↔A↔B↔...↔Z↔&↔/↔_(blank space)



(2) press RETURN.



(3) Repeat steps (1) and (2) to select the remaining letters and press RETURN.



9 Repeat step 5 to 7 to caption other channels.

To erase a caption

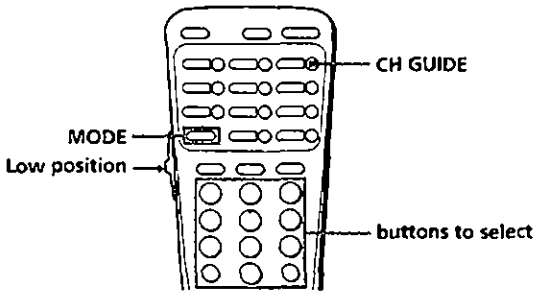
Press RESET after step 5.

(3) Repeat steps (1) and (2) to select the remaining letters and press RETURN.

Notes

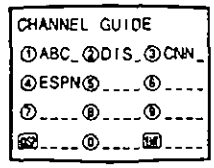
- If the CH CAPTION/GUIDE menu appears in black, the TV is set to a video input and you cannot select CH CAPTION/GUIDE.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption/guide feature is not available for the AUX input.

Selecting a captioned channel



1 Press CH GUIDE.

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.



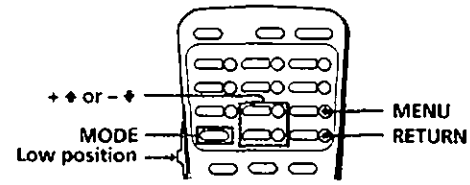
2 Press a channel number button, the DISP or ENT button to select the channel you want.

To cancel the CHANNEL GUIDE menu

Press CH GUIDE again.

Setting video labels (VIDEO LABEL)

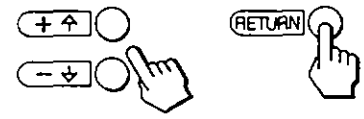
This feature allows you to label each video input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.

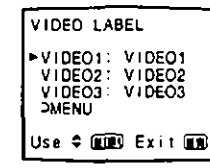


1 Press MENU.

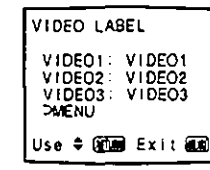
2 Press + ↑ or – ↓ to select SET UP and press RETURN.

3 Press + ↑ or – ↓ to select VIDEO LABEL and press RETURN.



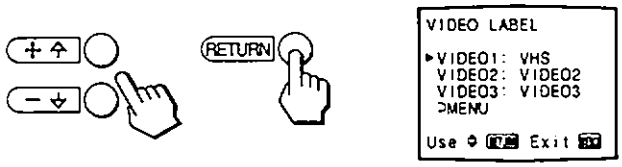


4 Press + ↑ or – ↓ to select the input mode you want to label and press RETURN.



(continued)

5 Press + ↑ or – ↓ to select the label and press RETURN.



Each time you press + ↑ or – ↓, the label changes as shown below.

VIDEO 1
VIDEO 1 ⟷ S VIDEO ⟷ BETA ⟷ 8 mm ⟷ VHS ⟷ LD

VIDEO 2
VIDEO 2 ⟷ BETA ⟷ 8 mm ⟷ VHS ⟷ LD

VIDEO 3
VIDEO 3 ⟷ BETA ⟷ 8 mm ⟷ VHS ⟷ LD

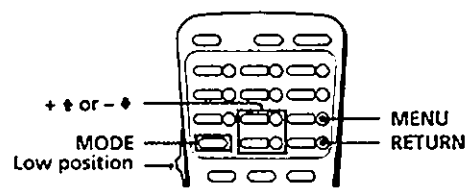
6 Repeat steps 4 and 5 to label other input modes.

Note
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Displaying Closed Caption (CLOSED CAPTION)

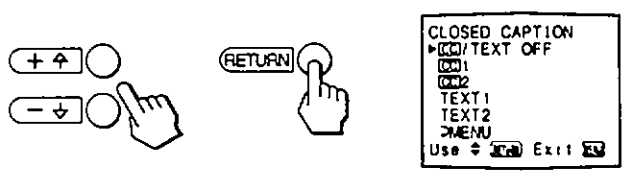
■ ***KV-27XBR37/32XBR37 only***

Some programs are broadcast with Closed Caption. To display Closed Caption, select either CC1, CC2, TEXT1, or TEXT2 from the menu.
CC1 or CC2 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.)
TEXT1 or TEXT2 shows you text, that is information presented using half of the screen. It is not usually related to the program.

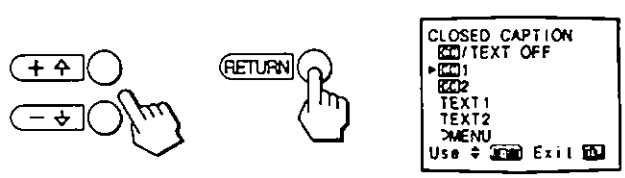


1 Press MENU.

2 Press + ↑ or – ↓ to select CLOSED CAPTION and press RETURN.



3 Press + ↑ or – ↓ to select the caption type and press RETURN.



Note
- Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.

ess + ↑ or – ↓ to select the caption type
d press RETURN.

3 Press + ↑ or – ↓ to select the caption type and press RETURN.

Operating video equipment

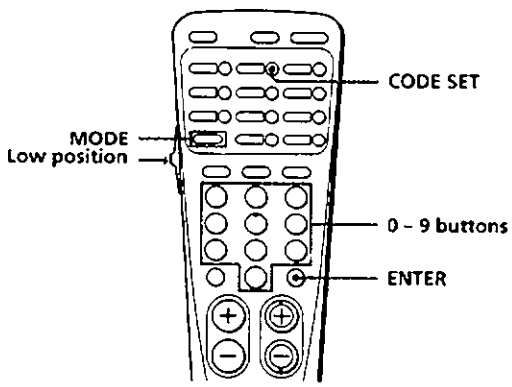
You can operate video equipment that has an infrared remote sensor with the supplied remote commander. To operate it, set the manufacturer's code number.

Setting the manufacture's code

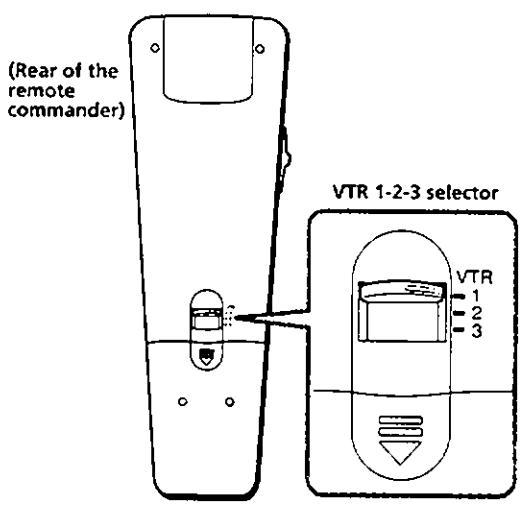
The following Sony video equipment is assigned to each position of the selector at its factory preset:

VTR 1 Beta, ED Beta VCR
VTR 2 8 mm VCR
VTR 3 VHS VCR

You can change the settings of each position.



1 Set the VTR 1-2-3 selector to the position you want to set the code.



2 While pressing CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart in the column). For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.

Note

- To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

VCR manufacturer code numbers

Manufacturer	Code number
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

MDP manufacturer code numbers

Manufacturer	Code number
SONY	04
KENWOOD	58
MAGNAVOX	52
MARANZ	54
MITSUBISHI	51
PANASONIC	55
PHILIPS	52
PIONEER	51
RCA	51
SANYO	57
SHARP	56
YAMAHA	53

Notes

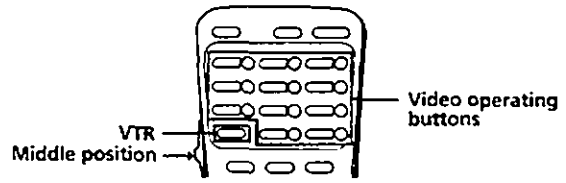
- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

Beta, ED Beta VCR	01
8 mm VCR	02
VHS VCR	03

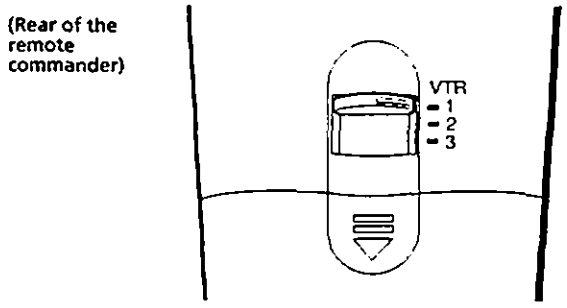
Caution

When you remove the battery from the remote commander, the code may revert to the factory setting. Reset the code each time you replace the battery, if necessary.

Operating video equipment



1 Set the VTR 1-2-3 selector according to the video equipment you want to operate.



Use the video operating buttons on the remote commander to operate the video equipment.

Operating a VCR	Buttons on the remote commander
To turn on or off	Press POWER
To change channels	Press CH +/–
To record	Press ● and REC simultaneously
To play	Press ▶
To stop	Press ■
To fast forward	Press ▶▶
To rewind the tape	Press ◀◀
To pause	Press II
To search the picture forward and backward	Press ▶▶ or ◀◀ during playback

Operating a multi-disc player	Buttons on the remote commander
To play	Press ▶
To stop	Press ■
To pause	Press II To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ▶▶ or ◀◀ during playback To resume normal playback, release the button.
To search the chapter	Press CH +/–

Note

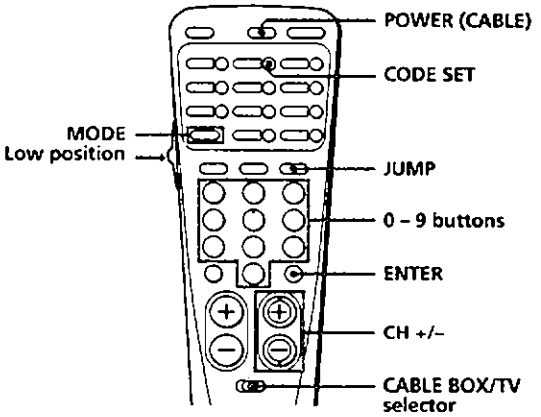
- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

Operating a cable box

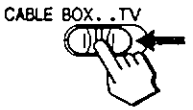
Setting the manufacturer's code

Follow these instructions to set the manufacturer's code which will enable you to operate a connected cable box with the pre-programmed remote commander.

For example, you can set the remote commander to operate a connected Zenith cable box as follows:

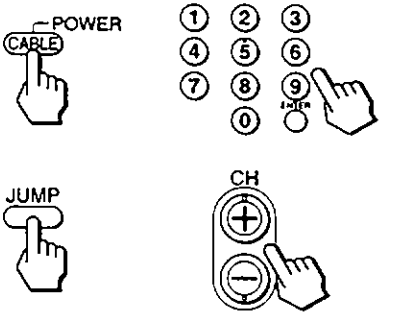


1 Set the CABLE BOX/TV selector to CABLE BOX.



2 While pressing CODE SET, press 6 and 8 (Zenith's code number —see chart on right) and ENTER.

4 Use POWER(CABLE) and the TV control buttons (0 – 9, ENTER, JUMP and CH +/–) to operate the cable converter box.



To operate the TV

Set the CABLE BOX/TV selector to TV. Then use the TV control buttons to control the TV.

For more details on operating the cable box

Refer to the operating instructions that come with the cable box.

Manufactures and code numbers (cable box)

Manufacturer	Code number
JERROLD	60, 61, 62, 63, 64, 65, 73
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

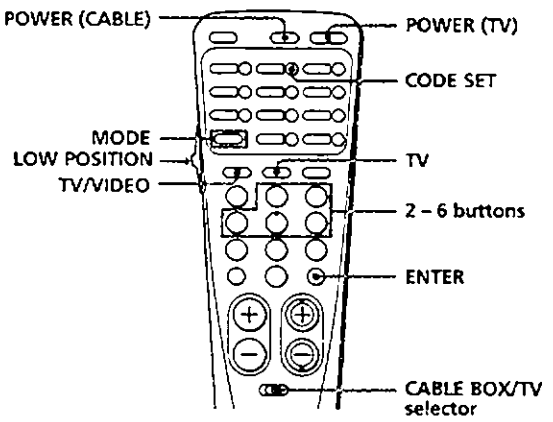
Notes

- If more than one code number is listed, try entering them one by one until you come up with the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.
- The JUMP button may not work or cause another function in some cable boxes.

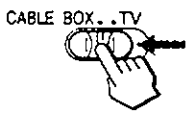
Auto cable input select function

This remote commander also features a function that will switch automatically to your cable box TV input channel when you turn on the TV or cable box. You can set this feature to the TV and cable power buttons on your remote by using the manufacture's code setting (page 32).

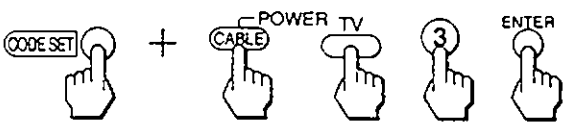
You can select 2–6 channels or VIDEO 1 according to your cable box.
For example, you can set the TV's channel to 3 whenever you turn the cable box on as follows:



1 Set the CABLE BOX/TV selector to CABLE BOX.

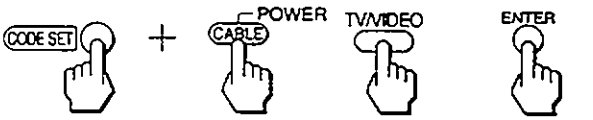


2 While pressing CODE SET, press POWER (CABLE), TV, 3 and ENTER.



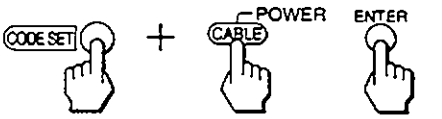
If you are viewing VIDEO 1 for cable TV, you can set as follows:

While pressing CODE SET, press POWER (CABLE), TV/VIDEO and ENTER.



To reset the auto cable input select setting

While pressing CODE SET, press POWER (CABLE) and ENTER.



Notes

- In some cases, your cable box may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander.
- When you remove the battery from the remote commander, the setting may be erased. Make the setting again each time you replace the battery, if necessary.
- If your TV's AC cord plugged in to the cable box's switch outlet, it may effect the proper operation of this function.

Troubleshooting

After trying the methods below, if the problem persists, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- ➡ Make sure the power cord is connected securely.
- ➡ Operate with the buttons on the TV.
- ➡ Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO.
- ➡ Try another channel. It could be station trouble.

Poor or no picture (screen lit), good sound

- ➡ Adjust PICTURE in the VIDEO menu. (page **18**)
- ➡ Adjust BRIGHT in the VIDEO menu. (page **18**)
- ➡ Check antenna/cable connections.
- ➡ Make sure S VIDEO is set to ON in the SET UP menu, when watching video tapes with an S video type VCR.

Good picture, no sound

- ➡ Press MUTING so that "MUTING" disappears from the screen. (page **15**)
- ➡ Check the MTS setting in the AUDIO menu. (page **21**)
- ➡ Make sure SPEAKER is set to MAIN in the SPEAKERS menu. (page **21**)

No color

- ➡ Adjust COLOR in the VIDEO menu. (page **18**)
- ➡ Black and white programs cannot be seen in color.

Only snow and noise appear on the screen

- ➡ Check the CABLE setting in the SET UP menu. (page **12**)
- ➡ Check the antenna/cable connections.
- ➡ Make sure the channel is broadcasting programs.

Dotted lines or stripes

- ➡ Adjust the antenna.
- ➡ Move the TV away from noise sources such as cars, neon signs, and hair-dryers.

Double images or ghosts

- ➡ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- ➡ If the item you want to choose appears in black, you cannot select it. Press TV/VIDEO correctly.

Cannot receive upper channels (UHF) when using an antenna

- ➡ Check if CABLE is OFF in the SET UP menu. (page **12**)
- ➡ Use or AUTO PROGRAM to add receivable channels that are not presently in TV memory. (page **12, 13**)

Cannot receive any channels when using cable TV

- ➡ Check if CABLE is ON in the SET UP menu. (page **12**)
- ➡ Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (page **12, 13**)

Remote commander does not operate

- ➡ Battery could be weak. Replace the battery.
- ➡ Make sure the TV's power cord is connected securely to wall outlet.
- ➡ Set the CABLE BOX/TV selector to TV when operating your TV.
- ➡ Are fluorescent lights too close to TV? Move at least 3-4 feet away from TV.

(continued)

Commander's power, channel up/down, channel buttons do not function

➡ Set the CABLE BOX/TV selector to the correct position.

Cannot gain enough volume when using a cable box

➡ Increase the volume at the cable box. Then set the CABLE BOX/TV selector to TV and adjust the TV's volume.

The current time resets whenever the TV is turned on

➡ Connect the TV's and the cable box's AC power cord to separate wall outlets.

The TV needs to be cleaned

➡ Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

The TV always turns on to the same channel

➡ Check if you have preset your remote control for the Auto cable input select function.
If you do not desire this feature, reset your remote commander (page **34**).

Specifications

Model number	KV-27XBR37	KV-27XBR37M	KV-32XBR37	Notes
Television system	American TV standard			
Channel coverage	VHF: 2-13 / UHF: 14-69 / CATV: 1-125			
Antenna	75-ohm external antenna terminal for VHF/UHF			
Picture tube	Hi Black Trinitron® tube		Trinitron® tube	
Screen size (in.)	27	27	32	Measured diagonally
Number of inputs/outputs				
Video	3	3	3	1 Vp-p, 75 ohms unbalanced, sync negative
S video	1	1	1	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio	3	3	3	500 mVrms (100% modulation), Impedance: 47 kilohms
Audio out	1	1	1	More than 900 mVrms at the maximum volume setting (variable) More than 500 mVrms (fix) Impedance: 5 kilohms
Monitor out	1	1	1	Video (phone jack): 1 Vp-p, 75 ohm unbalanced, sync negative Audio (phone jack): 500 m Vrms (100% modulation) Impedance: 10 kilohms
Loop out	1	1	1	
Control S (IN/OUT) mini jack	1	1	1	
Speaker output (W)	15 W × 2	15 W × 2	15 W × 2	7.5 ohm
Center Speaker (W)	1	1	1	16 W (NOR), 16 ohm 30 W (MAX)
Power requirements	120 V 60 Hz	120 V 60 Hz	120 V 60 Hz	
Power consumption (W)				
When in use	180	180	190	
In standby	6	6	6	
Dimensions (W/H/D) (mm)	756 × 577.8 × 519.5 (29.8 × 22.7 × 20.5 in.)		870 × 663 × 574.8 (34.3 × 26.1 × 22.6 in.)	
Mass (kg)	48.8 (107.4 lbs)		74.45 (163.8 lbs)	

Supplied accessories

Remote commander RM-Y122 (1)
Size AA (R6) battery (3)
Cordless headphone system MDR-IF310 (1)

Optional accessories

U/V mixer EAC-66
Connecting cables VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A

Design and specifications subject to change without notice.

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Name of controls

♦ +/♦ – buttons **12**
AUDIO button **11, 17**
Cable Box/TV selector **33**
CH (channel) GUIDE button **28**
CH (channel) +/– button **13**
CONTROL S jack **10**
DEMO button **12**
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SAP (Second Audio Program) 20
S VIDEO 6
SAP (Second Audio Program

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